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## Magnon spintronics in non-collinear magnetic insulator/metal heterostructures

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## List of publications

1. **Surface sensitivity of the spin Seebeck effect [Chapter 3]**  
A. Aqeel, I. J. Vera-Marun, B. J. van Wees & T. T. M. Palstra  
*J. Appl. Phys.* **116**, 153705 (2014) [doi: 10.1063/1.4897933]
2. **Self-Assembly of Ferromagnetic OrganicInorganic Perovskite-Like Films**  
N. Akhtar, A. O. Polyakov, A. Aqeel, P. Gordiichuk, G. R. Blake, J. Baas, H. Amenitsch, A. Herrmann, P. Rudolf & T. T. M. Palstra  
*Small* **10**, 4912 (2014) [doi: 10.1002/smll.201400259]
3. **Spin-Hall magnetoresistance and spin Seebeck effect in spin-spiral and paramagnetic phases of multiferroic  $\text{CoCr}_2\text{O}_4$  films [Chapter 4]**  
A. Aqeel, N. Vlietstra, J. A. Heuver, G. E. W. Bauer, B. Noheda, B. J. van Wees & T. T. M. Palstra  
*Phys. Rev. B* **10**, 4912 (2015) [doi: 10.1103/PhysRevB.92.224410]
4. **Phase diagram and magnetic relaxation phenomena in  $\text{Cu}_2\text{OSeO}_3$**   
F. Qian, H. Wilhelm, A. Aqeel, T.T.M. Palstra, A.J.E. Lefering, E. H. Brück & C. Pappas  
*Phys. Rev. B* **94**, 064418 (2016) [doi: 10.1103/PhysRevB.94.064418]
5. **Optically probing symmetry breaking in the chiral magnet  $\text{Cu}_2\text{OSeO}_3$**   
R. B. Versteeg, I. Vergara, S. D. Schäfer, D. Bischoff, A. Aqeel, T. T. M. Palstra, M. Grüninger & P. H. M van Loosdrecht  
*Phys. Rev. B* **94**, 094409 (2016) [doi: 10.1103/PhysRevB.94.094409]

6. **Electrical detection of spiral spin structures in Pt|Cu<sub>2</sub>OSeO<sub>3</sub> heterostructures [Chapter 5]**  
A. Aqeel, N. Vlietstra, A. Roy, M. Mostovoy, B. J. van Wees & T. T. M. Palstra  
*Phys. Rev. B* **94**, 134418 (2016) [doi: 10.1103/PhysRevB.94.134418]
  
7. **Dissipation phenomena and magnetic phase diagram of Cu<sub>2</sub>OSeO<sub>3</sub> below 50 K**  
F. Qian, H. Wilhelm, A. Aqeel, T. T. M. Palstra, A. J. E. Lefering, E. H. Brück, and C. Pappas  
*submitted in Phys. Rev. B* (2016)
  
8. **Probing current-induced magnetic fields in Au|YIG heterostructure with low-energy muon spectroscopy [Chapter 6]**  
A. Aqeel, I. J. Vera-Marun, Z. Salman, B. J. van Wees & T. T. M. Palstra  
*accepted in Appl. Phys. Lett.* (2017)
  
9. **Magnetic functionality of thin film perovskite hybrids**  
A. O. Polyakov, N. Akhtar, A. Aqeel, P. Rudolf & T. T. M. Palstra  
*to be submitted* (2017)
  
10. **Growth and helicity of non-centrosymmetric Cu<sub>2</sub>OSeO<sub>3</sub> crystals [Chapter 7]**  
A. Aqeel, J. Baas, G. R. Blake, & T. T. M. Palstra  
*to be submitted in Crystal Growth & Design* (2017)
  
11. **Spin-Hall magnetoresistance in multidomain helical spiral systems**  
A. Aqeel, M. Mostovoy, B. J. van Wees & T. T. M. Palstra  
*accepted in J. Appl. Phys. D* (2017)
  
12. **Experimental observation of quantized helimagnon resonances in the chiral magnetic insulator Cu<sub>2</sub>OSeO<sub>3</sub>**  
M. Weiler, A. Aqeel, M. Mostovoy, A. O. Leonov, S. Geprägs, R. Gross, H. Huebl, T. T. M. Palstra, & S. T. B. Goennenwein  
*to be submitted* (2017)